



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/719,310

DATE: 09/03/2004

TIME: 15:19:36

Input Set : A:\P1979R1Sequence.txt  
 Output Set: N:\CRF4\09032004\J719310.raw

7 <110> APPLICANT: Brunetta, Paul G.  
 8 Sliwkowski, Mark X.  
 10 <120> TITLE OF INVENTION: THERAPY OF NON-MALIGNANT DISEASES OR DISORDERS WITH  
 11 ANTI-ERBB2 ANTIBODIES  
 13 <130> FILE REFERENCE: P1979R1  
 15 <140> CURRENT APPLICATION NUMBER: US 10/719,310  
 16 <141> CURRENT FILING DATE: 2003-11-21  
 18 <150> PRIOR APPLICATION NUMBER: US 60/428,027  
 19 <151> PRIOR FILING DATE: 2002-11-21  
 21 <160> NUMBER OF SEQ ID NOS: 13  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 107  
 25 <212> TYPE: PRT  
 26 <213> ORGANISM: Mus Musculus  
 28 <400> SEQUENCE: 1  
 29 Asp Thr Val Met Thr Gln Ser His Lys Ile Met Ser Thr Ser Val  
 30 1 5 10 15  
 32 Gly Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Ser  
 33 20 25 30  
 35 Ile Gly Val Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Lys  
 36 35 40 45  
 38 Leu Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr Thr Gly Val Pro Asp  
 39 50 55 60  
 41 Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile  
 42 65 70 75  
 44 Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln  
 45 80 85 90  
 47 Tyr Tyr Ile Tyr Pro Tyr Thr Phe Gly Gly Thr Lys Leu Glu  
 48 95 100 105  
 50 Ile Lys  
 53 <210> SEQ ID NO: 2  
 54 <211> LENGTH: 119  
 55 <212> TYPE: PRT  
 56 <213> ORGANISM: Mus musculus  
 58 <400> SEQUENCE: 2  
 59 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly  
 60 1 5 10 15  
 62 Thr Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Phe Thr Phe Thr  
 63 20 25 30  
 65 Asp Tyr Thr Met Asp Trp Val Lys Gln Ser His Gly Lys Ser Leu  
 66 35 40 45  
 68 Glu Trp Ile Gly Asp Val Asn Pro Asn Ser Gly Gly Ser Ile Tyr  
 69 50 55 60

ENTERED

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71 Asn Gln Arg Phe Lys Gly Lys Ala Ser Leu Thr Val Asp Arg Ser  
72 65 70 75  
74 Ser Arg Ile Val Tyr Met Glu Leu Arg Ser Leu Thr Phe Glu Asp  
75 80 85 90  
77 Thr Ala Val Tyr Tyr Cys Ala Arg Asn Leu Gly Pro Ser Phe Tyr  
78 95 100 105  
80 Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser  
81 110 115  
83 <210> SEQ ID NO: 3  
84 <211> LENGTH: 107  
85 <212> TYPE: PRT  
86 <213> ORGANISM: Artificial Sequence  
88 <220> FEATURE:  
89 <223> OTHER INFORMATION: sequence is synthesized  
91 <400> SEQUENCE: 3  
92 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
93 1 5 10 15  
95 Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Ser  
96 20 25 30  
98 Ile Gly Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
99 35 40 45  
101 Leu Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr Thr Gly Val Pro Ser  
102 50 55 60  
104 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
105 65 70 75  
107 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
108 80 85 90  
110 Tyr Tyr Ile Tyr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu  
111 95 100 105  
113 Ile Lys  
116 <210> SEQ ID NO: 4  
117 <211> LENGTH: 119  
118 <212> TYPE: PRT  
119 <213> ORGANISM: Artificial Sequence  
121 <220> FEATURE:  
122 <223> OTHER INFORMATION: sequence is synthesized  
124 <220> FEATURE:  
W--> 125 <221> NAME/KEY: artificial  
126 <222> LOCATION: 1-119  
127 <223> OTHER INFORMATION: Fab 574 VH  
129 <400> SEQUENCE: 4  
130 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly  
131 1 5 10 15  
133 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr  
134 20 25 30  
136 Asp Tyr Thr Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
137 35 40 45  
139 Glu Trp Val Ala Asp Val Asn Pro Asn Ser Gly Gly Ser Ile Tyr  
140 50 55 60

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142 Asn Gln Arg Phe Lys Gly Arg Phe Thr Leu Ser Val Asp Arg Ser  
143 65 70 75  
145 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp  
146 80 85 90  
148 Thr Ala Val Tyr Tyr Cys Ala Arg Asn Leu Gly Pro Ser Phe Tyr  
149 95 100 105  
151 Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
152 110 115  
154 <210> SEQ ID NO: 5  
155 <211> LENGTH: 107  
156 <212> TYPE: PRT  
157 <213> ORGANISM: Artificial Sequence  
159 <220> FEATURE:  
160 <223> OTHER INFORMATION: sequence is synthesized  
162 <400> SEQUENCE: 5  
163 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
164 1 5 10 15  
166 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser  
167 20 25 30  
169 Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
170 35 40 45  
172 Leu Leu Ile Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser  
173 50 55 60  
175 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
176 65 70 75  
178 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
179 80 85 90  
181 Tyr Asn Ser Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu  
182 95 100 105  
184 Ile Lys  
187 <210> SEQ ID NO: 6  
188 <211> LENGTH: 119  
189 <212> TYPE: PRT  
190 <213> ORGANISM: Artificial Sequence  
192 <220> FEATURE:  
193 <223> OTHER INFORMATION: sequence is synthesized  
195 <400> SEQUENCE: 6  
196 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly  
197 1 5 10 15  
199 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser  
200 20 25 30  
202 Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
203 35 40 45  
205 Glu Trp Val Ala Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr  
206 50 55 60  
208 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser  
209 65 70 75  
211 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp  
212 80 85 90

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Input Set : A:\P1979R1Sequence.txt  
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214 Thr Ala Val Tyr Tyr Cys Ala Arg Gly Arg Val Gly Tyr Ser Leu  
215 95 100 105  
217 Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
218 110 115  
220 <210> SEQ ID NO: 7  
221 <211> LENGTH: 10  
222 <212> TYPE: PRT  
223 <213> ORGANISM: Mus musculus  
225 <220> FEATURE:  
226 <221> NAME/KEY: unsure  
227 <222> LOCATION: 10  
228 <223> OTHER INFORMATION: unknown amino acid  
230 <400> SEQUENCE: 7  
  
W--> 231 Gly Phe Thr Phe Thr Asp Tyr Thr Met Xaa  
232 1 5 10  
234 <210> SEQ ID NO: 8  
235 <211> LENGTH: 17  
236 <212> TYPE: PRT  
237 <213> ORGANISM: Mus musculus  
239 <400> SEQUENCE: 8  
240 Asp Val Asn Pro Asn Ser Gly Gly Ser Ile Tyr Asn Gln Arg Phe  
241 1 5 10 15  
243 Lys Gly  
246 <210> SEQ ID NO: 9  
247 <211> LENGTH: 10  
248 <212> TYPE: PRT  
249 <213> ORGANISM: Mus musculus  
251 <400> SEQUENCE: 9  
252 Asn Leu Gly Pro Ser Phe Tyr Phe Asp Tyr  
253 1 5 10  
255 <210> SEQ ID NO: 10  
256 <211> LENGTH: 11  
257 <212> TYPE: PRT  
258 <213> ORGANISM: Mus musculus  
260 <400> SEQUENCE: 10  
261 Lys Ala Ser Gln Asp Val Ser Ile Gly Val Ala  
262 1 5 10  
264 <210> SEQ ID NO: 11  
265 <211> LENGTH: 7  
266 <212> TYPE: PRT  
267 <213> ORGANISM: Mus musculus  
269 <220> FEATURE:  
270 <221> NAME/KEY: unsure  
271 <222> LOCATION: 5-7  
272 <223> OTHER INFORMATION: unknown amino acid  
274 <400> SEQUENCE: 11  
  
W--> 275 Ser Ala Ser Tyr Xaa Xaa Xaa  
276 1 5  
278 <210> SEQ ID NO: 12

RAW SEQUENCE LISTING  
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279 <211> LENGTH: 9  
280 <212> TYPE: PRT  
281 <213> ORGANISM: Mus musculus  
283 <400> SEQUENCE: 12  
284 Gln Gln Tyr Tyr Ile Tyr Pro Tyr Thr  
285 1 5  
287 <210> SEQ ID NO: 13  
288 <211> LENGTH: 645  
289 <212> TYPE: PRT  
290 <213> ORGANISM: human  
292 <400> SEQUENCE: 13  
293 Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu  
294 1 5 10 15  
296 Leu Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp  
297 20 25 30  
299 Met Lys Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met  
300 35 40 45  
302 Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu  
303 50 55 60  
305 Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln  
306 65 70 75  
308 Asp Ile Gln Glu Val Gln Gly Tyr Val Leu Ile Ala His Asn Gln  
309 80 85 90  
311 Val Arg Gln Val Pro Leu Gln Arg Leu Arg Ile Val Arg Gly Thr  
312 95 100 105  
314 Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn Gly  
315 110 115 120  
317 Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser Pro Gly  
318 125 130 135  
320 Gly Leu Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys  
321 140 145 150  
323 Gly Gly Val Leu Ile Gln Arg Asn Pro Gln Leu Cys Tyr Gln Asp  
324 155 160 165  
326 Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala  
327 170 175 180  
329 Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys  
330 185 190 195  
332 Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu  
333 200 205 210  
335 Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys Ala  
336 215 220 225  
338 Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys  
339 230 235 240  
341 Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys  
342 245 250 255  
344 Leu His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala  
345 260 265 270  
347 Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro  
348 275 280 285

RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 10 ✓

Seq#:11; Xaa Pos. 5,6,7 ✓

**VERIFICATION SUMMARY**

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L:125 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4

L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0